

Figure 1

<i>GLP-1 (7-37)</i>	HAE G TFFTSDLV	SSYLEGQAAK	EFTIAWLVKGR	G-NH ₂
<i>Exendin-3</i>	HSDGTTFTSDL	SKQMEEEAVR	LFIIEWLKNGG	PSSGAPPSS-NH ₂
<i>Exendin-4</i>	HGE G TFFTSDL	SKQMEEEAVR	LFIIEWLKNGG	PSSGAPPSS-NH ₂
<i>Exendin[9-39]</i>	DL	SKQMEEEAVR	LFIIEWLKNGG	PSSGAPPSS-NH ₂

FIGURE 2

Gastric emptying with exendins

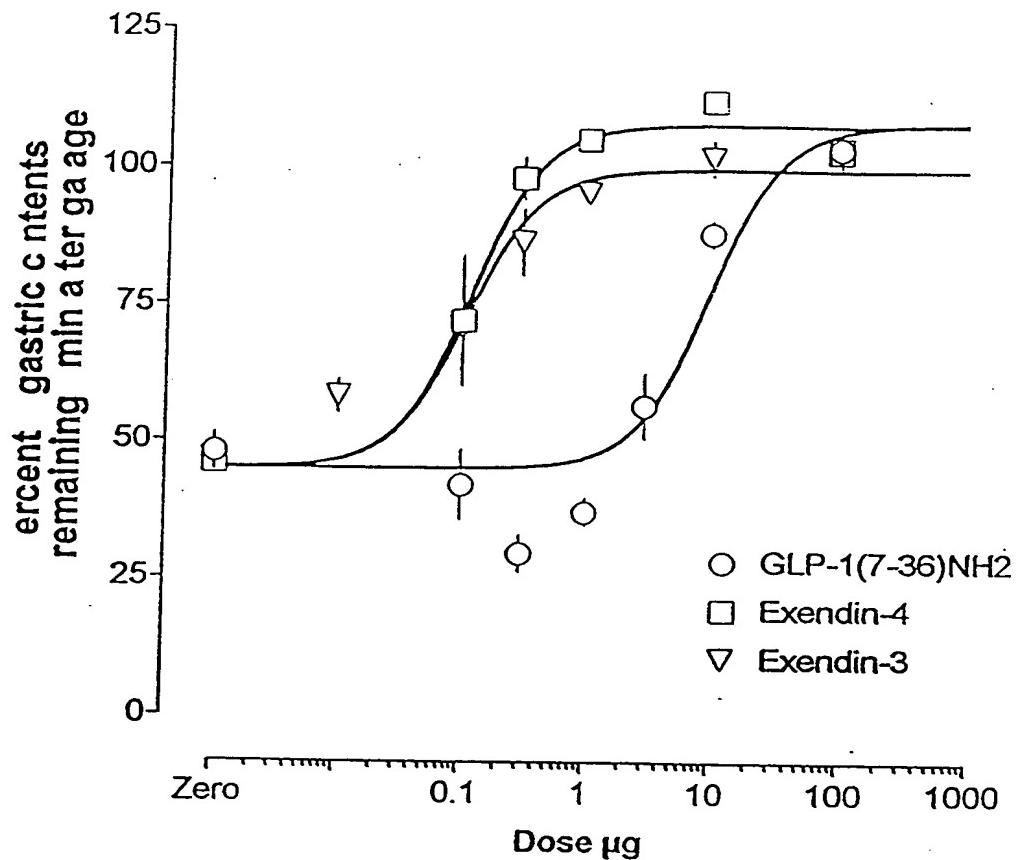


Figure 3

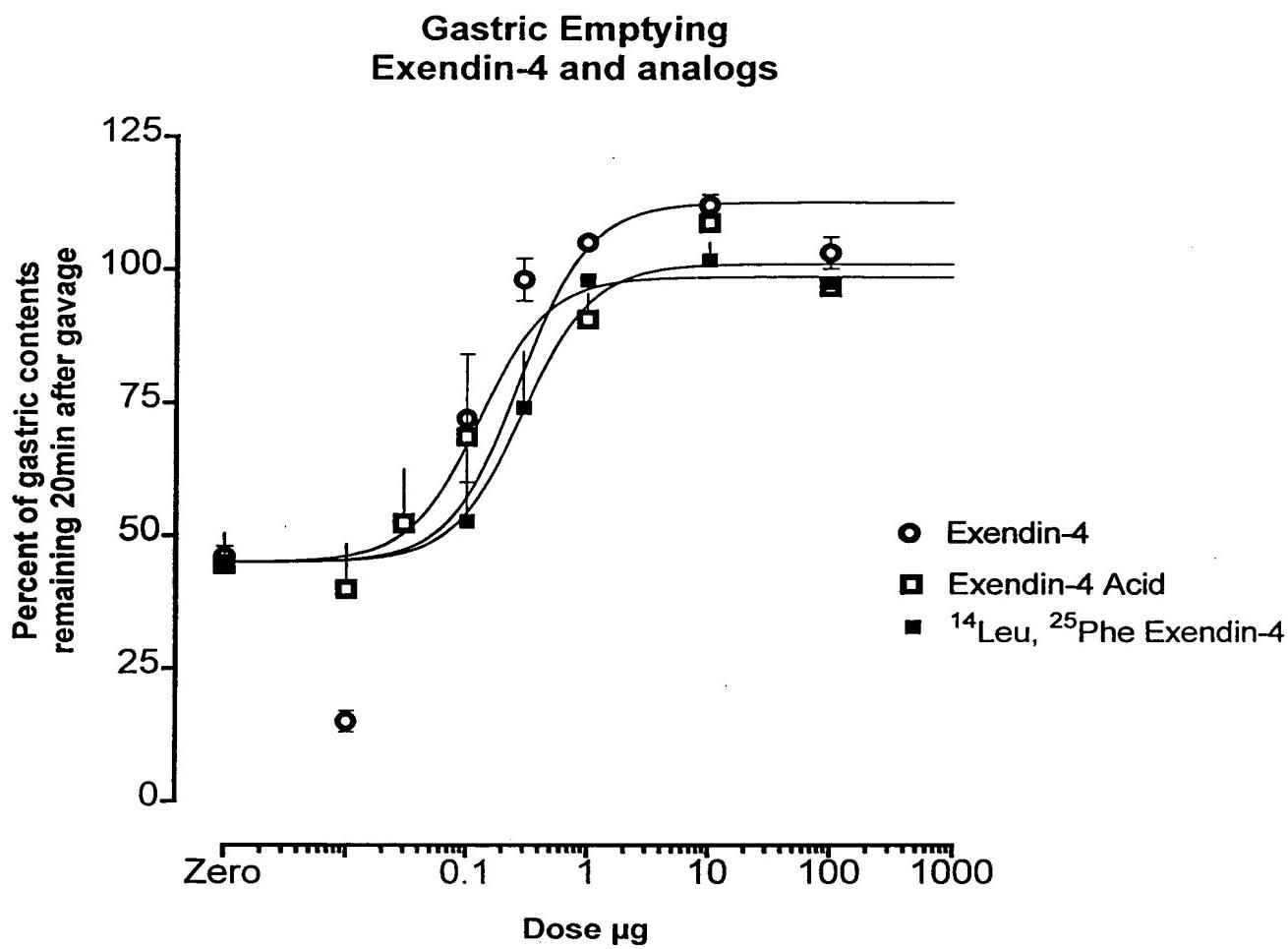


Figure 4

**Exendin 9-39 given sc did not
antagonize the effect of Exendin-4 on
gastric emptying**

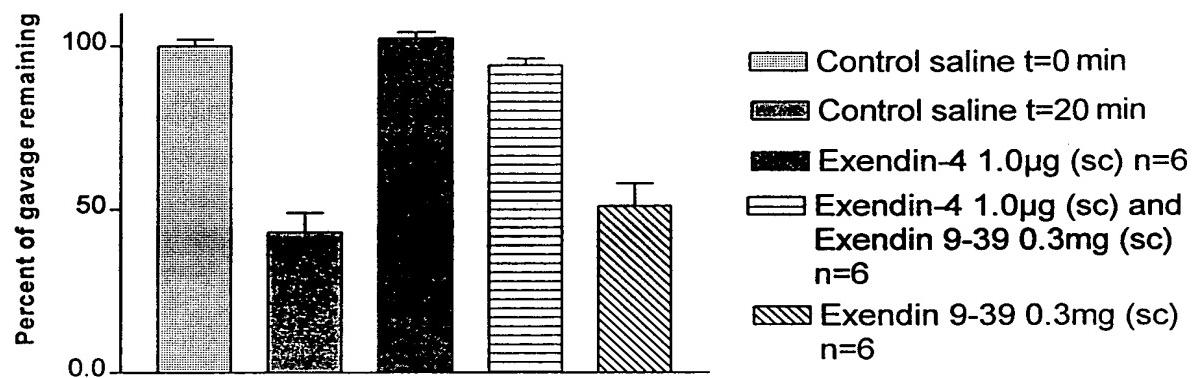


Figure 5

**Exendin 9-39 given iv did not antagonize
the effect of Exendin-4 on gastric
emptying**

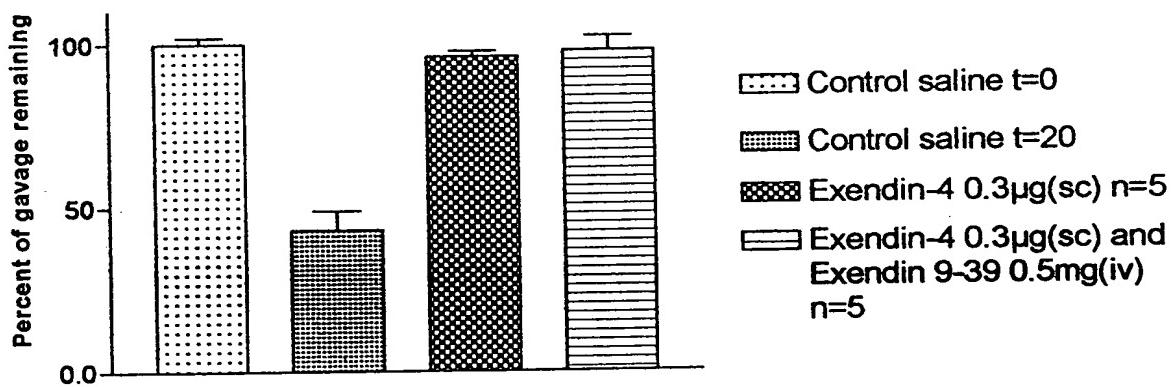


Figure 6

Exendin 9-39 given sc did not antagonize the effect of GLP-1 on gastric emptying

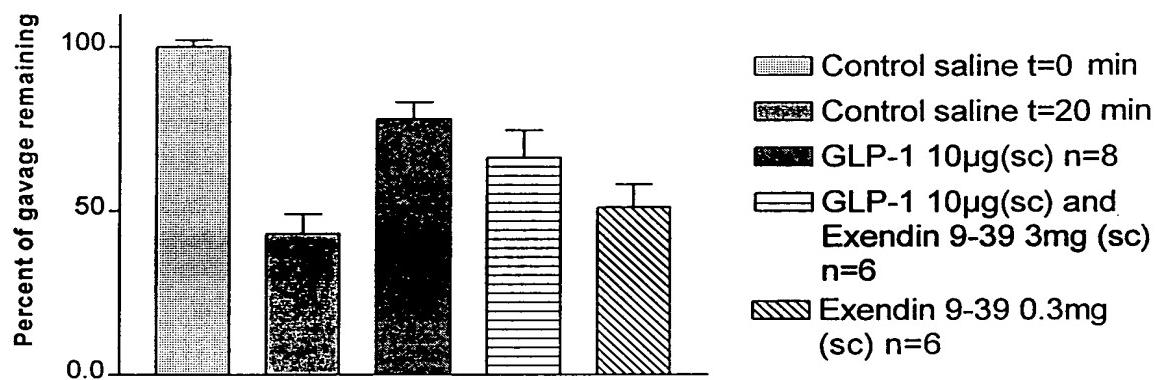
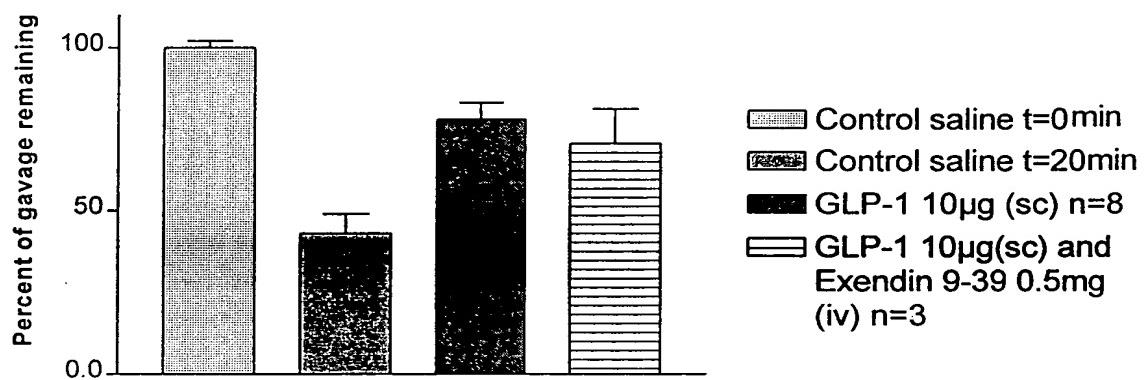


Figure 7

**Exendin 9-39 given iv did not antagonize
the effect of GLP-1 on gastric emptying**



1 5 10 15 20
 Xaa₁ Xaa₂ Xaa₃ Gly Thr Xaa₄ Xaa₅ Xaa₆ Xaa₇ Xaa₈ Xaa₉ Xaa₁₀ Xaa₁₁ Xaa₁₂ Xaa₁₃ Leu Lys Asn Gly Xaa₁₄ Ser Ser Gly Ala Xaa₁₅ Xaa₁₆ Xaa₁₇
 25 30 35
 Xaa₁₀ Xaa₁₁ Xaa₁₂ Xaa₁₃ Leu Lys Ala Gly Xaa₁₄ Ser Ser Gly Ala Xaa₁₅ Xaa₁₆ Xaa₁₇ Xaa₁₈-Z

Compound (Seq. Id. No.)	Xaa ₁	Xaa ₂	Xaa ₃	Xaa ₄	Xaa ₅	Xaa ₆	Xaa ₇	Xaa ₈	Xaa ₉	Xaa ₁₀	Xaa ₁₁	Xaa ₁₂	Xaa ₁₃	Xaa ₁₄	Xaa ₁₅	Xaa ₁₆	Xaa ₁₇	Xaa ₁₈	Z
1 [5]	His	Gly	Glu	Phe	Thr	Ser	Asp	Ile	Leu	Phe	Ile	Glu	Phe	Pro	Pro	Pro	Pro	Pro	NH ₂
2 [6]	His	Gly	Glu	Phe	Thr	Ser	Asp	Ile	Leu	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Pro	Ser
3 [7]	His	Gly	Glu	Phe	Thr	Ser	Asp	Ile	Leu	Phe	Ile	Glu	Phe	Pro	Pro	Pro	Pro	Pro	NH ₂
4 [8]	Tyr	Gly	Glu	Phe	Thr	Ser	Asp	Ile	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Ser
5 [9]	His	Gly	Glu	Phe	Thr	Ser	Asp	Ile	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Tyr
6 [10]	His	Gly	Asp	Phe	Thr	Ser	Asp	Ile	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	NH ₂
7 [11]	His	Gly	Glu	naph	Thr	Ser	Asp	Ile	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Ser
8 [12]	His	Gly	Glu	Phe	Ser	Ser	Asp	Ile	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	NH ₂
9 [13]	His	Gly	Glu	Phe	Ser	Thr	Asp	Ile	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Ser
10 [14]	His	Gly	Glu	Phe	Thr	Thr	Asp	Ile	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	NH ₂
11 [15]	His	Gly	Glu	Phe	Thr	Ser	Glu	Ile	Glu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Ser
12 [16]	His	Gly	Glu	Phe	Thr	Ser	Asp	pGly	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Pro	Ser
13 [17]	His	Gly	Glu	Phe	Thr	Ser	Asp	pGly	Leu	Phe	Ile	Glu	Phe	Pro	Pro	Pro	Pro	Pro	NH ₂
14 [18]	His	Gly	Glu	Phe	Thr	Ser	Asp	Ile	pGly	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Pro	Ser

03903667

FIGURE 8-2